



# **Parcel D-1 Phase II Rad Update**

**Hunters Point Naval Shipyard  
BCT Meeting  
January 15, 2015**

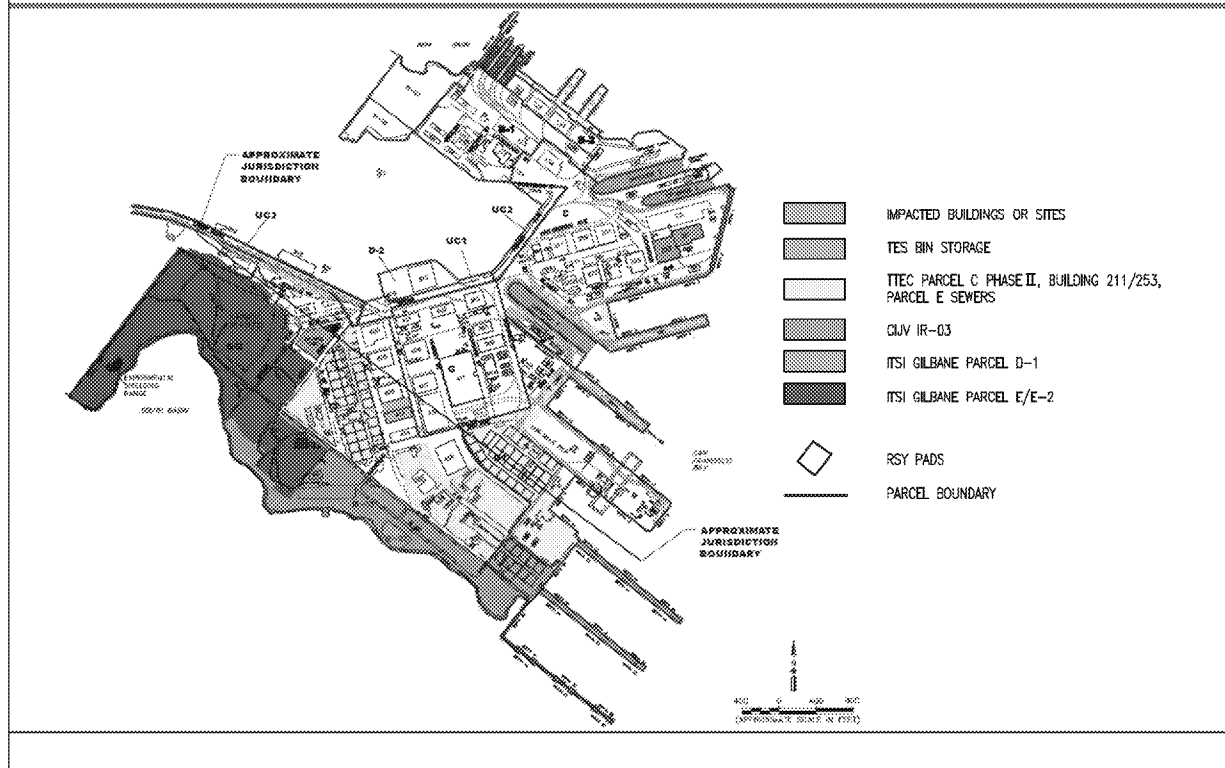
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## Parcel D-1 Phase II Presentation Overview



- Radiological Site Background and Impacted Areas
- Original Scope to Achieve Radiological Free Release
- Parcel D-1 Phase II Field Activities and Findings
- Planned Additional Work
- Revised Reporting Schedule

# Hunters Point Naval Shipyard



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## Radiological Site Background for Parcel D-1 Phase II



### **Former National Radiological Defense Laboratory (NRDL) Area**

Rectangular area was hand drawn on a 1949 map of HPNS showing locations that the NRDL occupied. The former uses is unknown but possibly an outside storage area to support the research being performed by NRDL.

### **Ship Berths (14, 21, 22, and 29)**

Berthing of OPERATION CROSSROADS ships and NRDL usage.

### **Sanitary Sewer/ Storm Drain Lines**

Radiological contamination entered the SS/SD system through drains from various radiologically impacted buildings across the base.

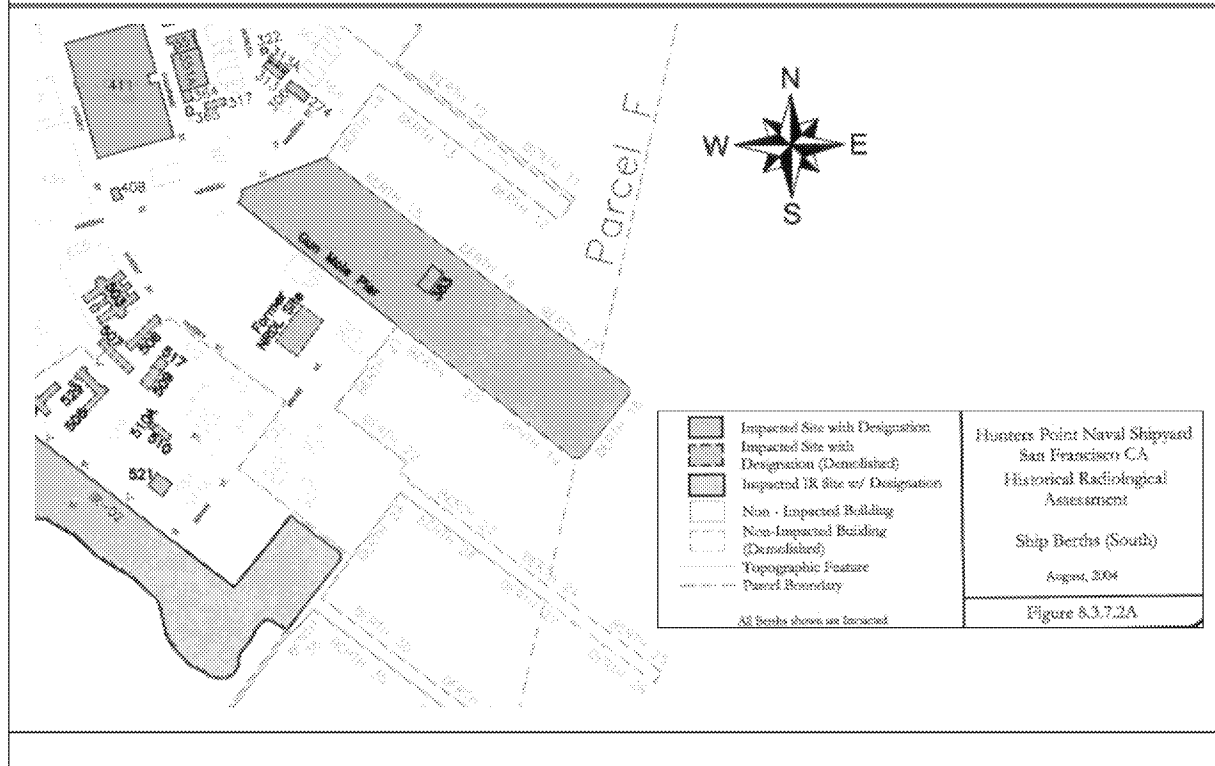
### **Railroad Ties Staged in Parcel D-1**

Removed from South Pier and Gun Mole Pier during radiological remediation activities and possibly radiologically impacted.

### **Radiological Screening Yard (RSY) 2**

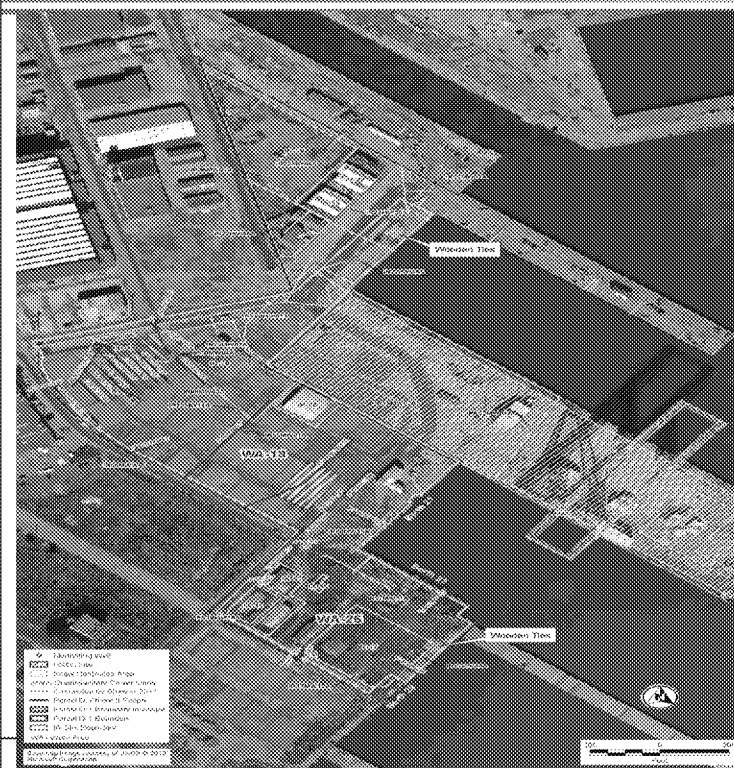
One of several screening pad areas built by the Navy to process radiologically impacted soil from various areas across the base under the Basewide RAD TCRA.

# Parcel D-1 Radiologically Impacted Areas



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# Parcel D-1 Phase II Original Scope to Achieve Radiological Free Release



- Removal, surveying , and remediation of 5,455 LF of sanitary sewer and storm drain (SS/SD)
- Radiological surveying and/or remediation of the NRDL Site and Ship Berths (14, 21, 22, and 29)
- Removal of Radiological Screening Yard (RSY) 2 pads
- Radiological surveying and waste disposal of railroad ties

The former NRDL site is approximately 300 ft (100 m) north-northwest of Berth 21. The Naval Radiological Defense Laboratory (NRDL) was established with the original mission of supporting the decontamination efforts on OPERATION CROSSROADS ships. Consequently, it is a potential storage site of OPERATION CROSSROADS material. Currently, the site is an open area.

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# Parcel D-1 Phase II Field Activities



Rail Ties staged for GWS



Excavation of SS/SD



Rail Ties Staged for T/D



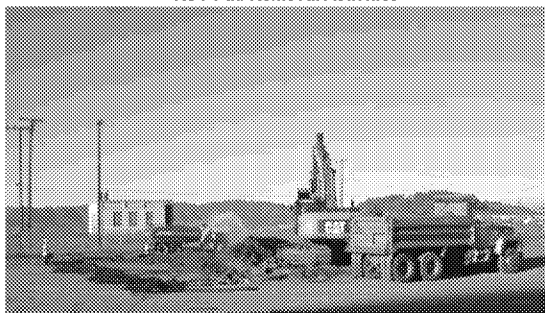
Excavation of SS/SD

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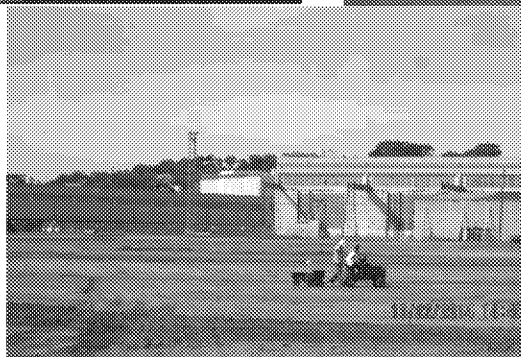
# Parcel D-1 Phase II Field Activities



RSY Pad Removal Activities



Stockpile Staging Area in Parcel E



GWS following the RSY Pad Removal

## Parcel D-1 Phase II Findings



1. To date, the Navy has identified and retrieved a total of nine (9) radiological objects across the Parcel D-1, Phase II area:

- Two (2) from trench soil units during removal and surveying of the SS/SDs
  - Unknown depth (identified on RSY pads after excavation of trench soils)
- Four (4) from the former NRDL site
  - 4" to 36" below ground surface (bgs)
- Three (3) from the southern block of Parcel D-1
  - 0.5" to 24" bgs

2. In addition, during the final gamma walkover survey (GWS) following the RSY-2 pad removals, gamma readings that may potentially be from Ra-226 activity were identified in the footprints of former RSY pads D11, D12, D18, and D19.

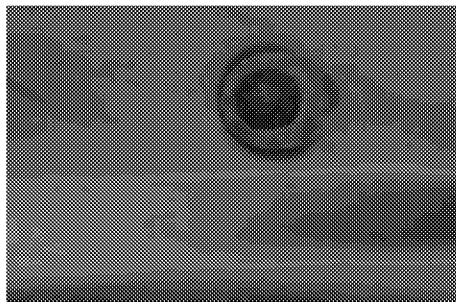
➡ The Navy has determined that additional investigation and surveys are needed to further explore these findings.

Identified and removed 9 anomalies –remediated (emphasize)

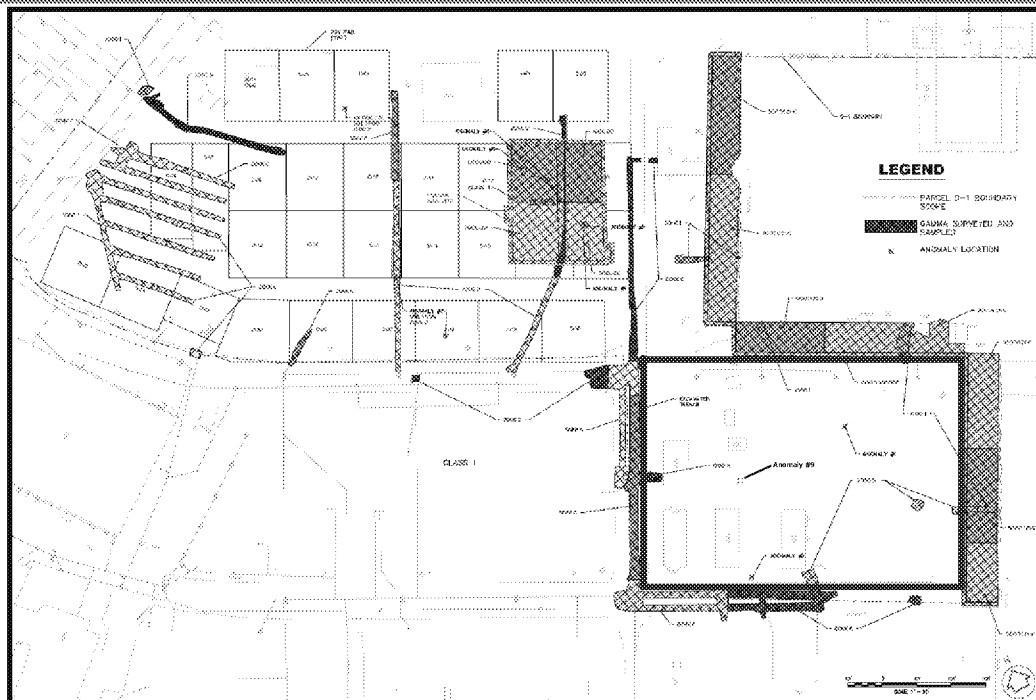
Final GWS analysis of the analysis of it based on what ctr told us.. As soon as we have something reportable  
What s the issue? Unforseen site conditions...

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## Parcel D-1, Phase II Pictures of Identified Radiological Objects



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## Planned Additional Work for Parcel D-1, Phase II



### **To address elevated gamma readings on RSY-2 Pads:**

- Conduct a more thorough background analysis of data to help ascertain where an anomaly may be present subsurface.
- Investigate anomalous gamma readings using gamma hand scanning instruments (NaI 2"x2" gamma scintillator) and hand tools to determine the source and depth.
- Excavate and remediate all positively identified anomalies and surrounding area.

### **To address objects found in southern block of Parcel D-1:**

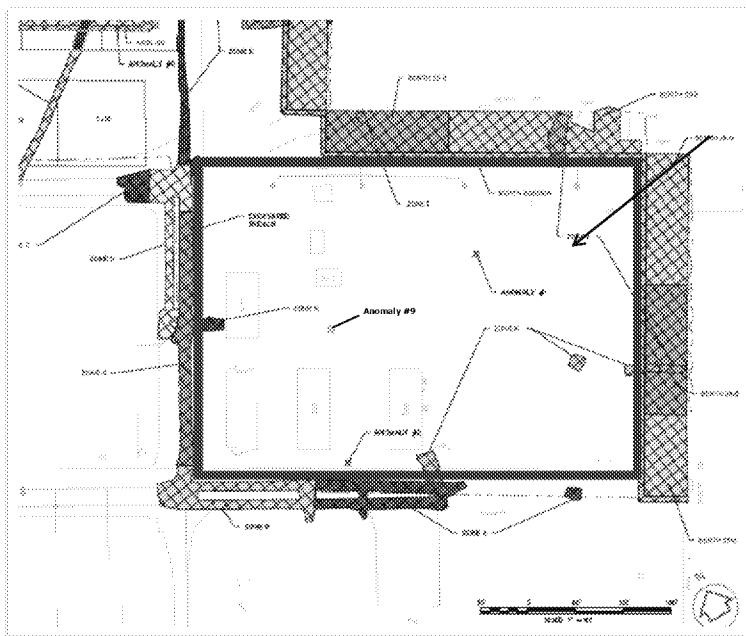
- Conduct 100% GWS of southern block to identify the presence of any other surface devices.
- Conduct similar analysis of data as described above.
- Excavate and remediate all positively identified anomalies and surrounding soil.

We think a lot of it serpentinite

Dredge material  
Different gamma signatures.

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# Southern Block of Parcel D-1 Planned Additional GWS



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## **Revised Reporting Schedule Parcel D-1, Phase II Reporting**



- Draft Parcel D-1 Ship Berths FSS Report – June 2015
- Draft Parcel D-1 NRDL FSS Report – June 2015
- Draft Parcel D-1 Phase II RACR – Fall 2015